

Section 8

1999 Speed-Related Total Crashes, Injury Crashes and Fatal Crashes

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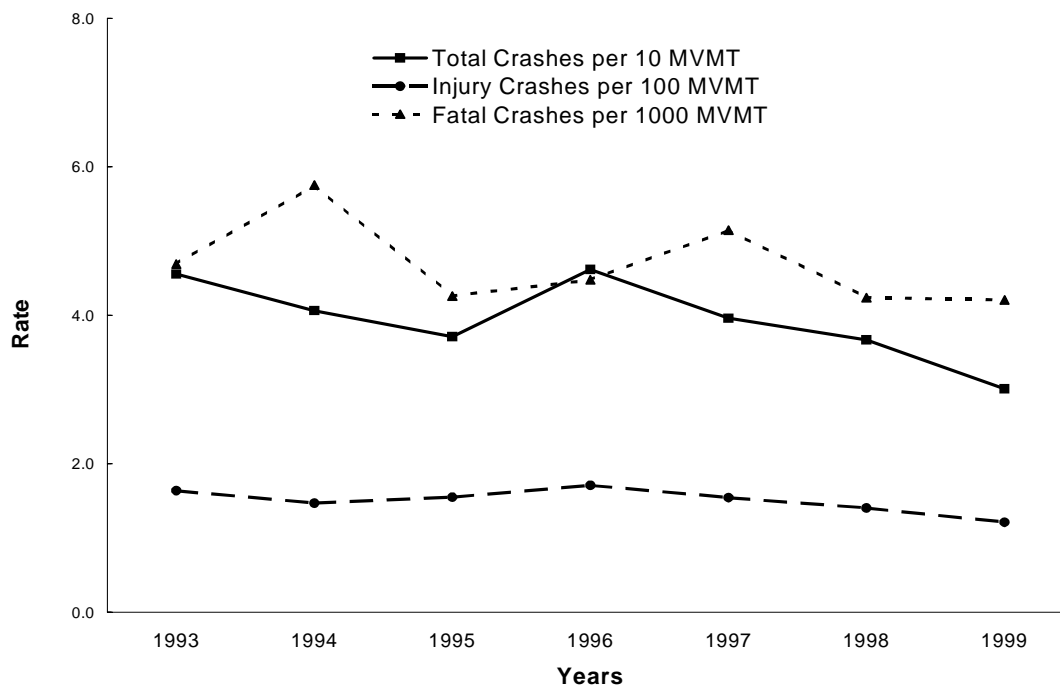
1993 - 1999 Speed-Related Crashes

For the past seven years, the speed-related injury crash rate per million vehicle miles traveled has remained fairly constant, while the trends for total crashes and fatal crashes varied from year to year (Table 8.01 and Figure 8.01). In 1999, total speed-related crashes decreased 15.5% from 1998 however the number of fatal speed-related crashes was unchanged. A crash was defined as speed-related if a driver was cited for "speeding" or if "speed to fast" was marked as a contributing factor.

Table 8.01 Speed-Related (S-R) Total Crashes, Injury Crashes and Fatal Crashes, Utah 1993-1998

Year	S-R Total Crashes		S-R Injury Crashes		S-R Fatal Crashes	
	#	Rate per 10 MVT	#	Rate per 10 MVT	#	Rate per 1000 MVT
1993	7,765	4.6	2,796	1.6	80	4.7
1994	7,344	4.1	2,658	1.5	104	5.8
1995	6,972	3.7	2,912	1.6	80	4.3
1996	8,974	4.6	3,322	1.7	87	4.5
1997	8,079	4.0	3,151	1.5	105	5.1
1998	7,788	3.7	2,981	1.4	90	4.2
1999	6,580	3.0	2,652	1.2	92	4.2

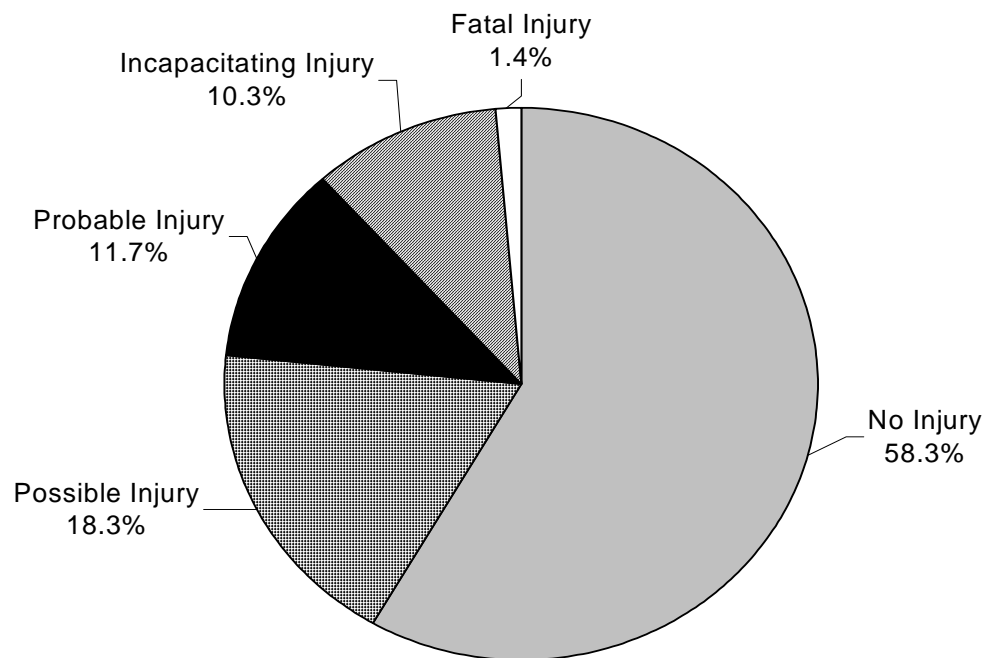
Figure 8.01 Speed-Related Total Crashes, Injury Crashes and Fatal Crashes, Utah 1993- 1999



1999 Speed-Related Crash Severity

Figure 8.02 shows the breakdown of speed-related crash severity. The percentage of speed-related crashes (41.7%) that resulted in an injury was similar to the percentage for all motor vehicle crashes (37.6%). The percentage of fatal speed-related crashes (1.4%) was higher than the percentage for all motor vehicle crashes (0.6%).

Figure 8.02 Severity of Speed-Related Crashes as Reported by Police, Utah 1999 (n=6,580)



1999 Speed-Related Crashes by County

The rates of total speed-related crashes, injury crashes and fatal crashes for each county are shown in Table 8.02. There are two different rates given; one based on population of the county, and another on the miles traveled in the county. The top three counties for total speed-related crashes based on million vehicle miles traveled were Wayne, Wasatch and Sevier. The top three counties for speed-related injury crashes were Wasatch, Daggett, and Wayne. Sevier, Millard and Sanpete had the highest rates of speed-related fatal crashes per million vehicle miles traveled.

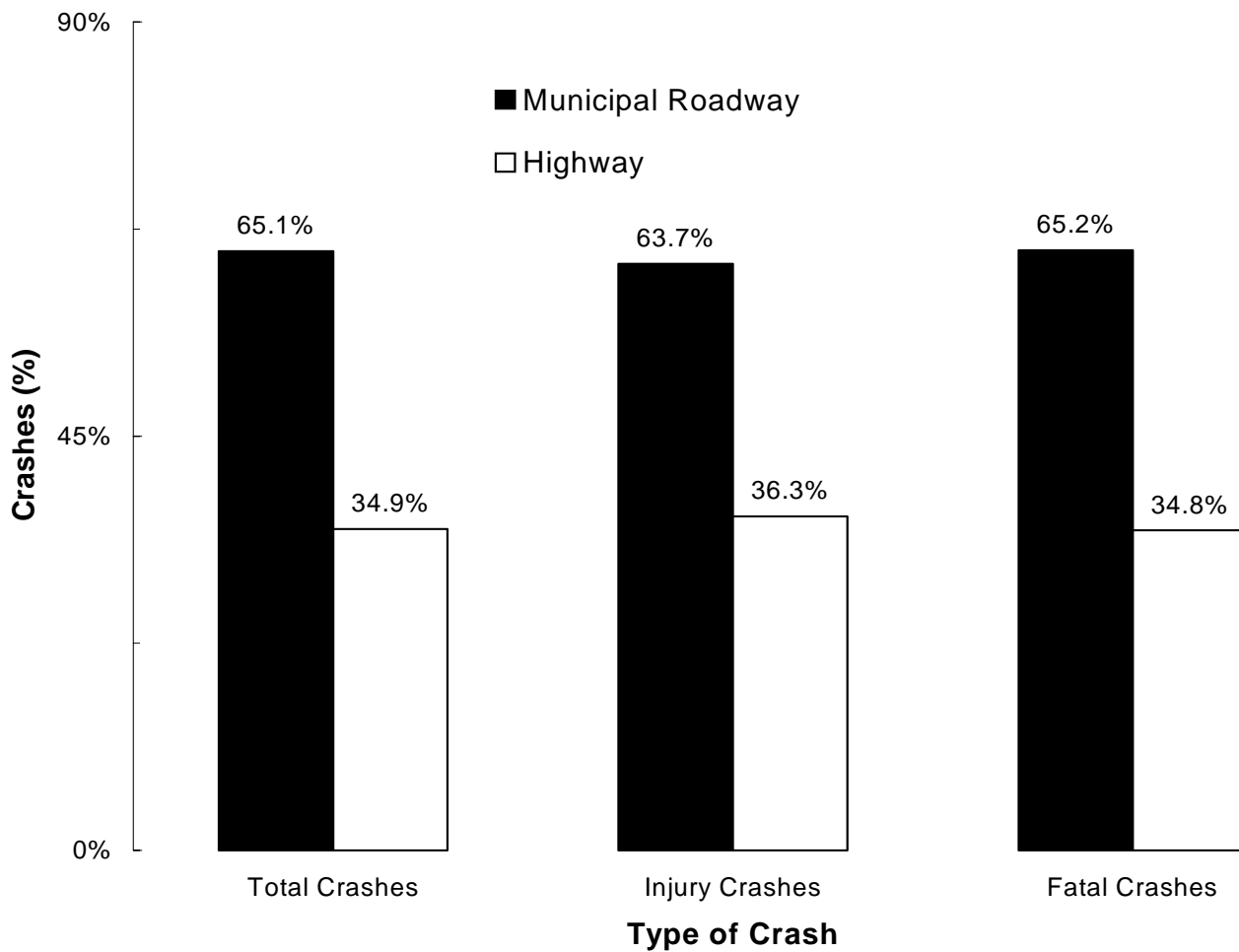
Table 8.02 Speed-Related (S-R) Total Crashes, Injury Crashes and Fatal Crashes by County, Utah 1999

County	S-R Total Crashes			S-R Injury Crashes			S-R Fatal Crashes		
	#	Rate per 100 MVMT	Rate per 10,000 Population	#	Rate per 100 MVMT	Rate per 10,000 Population	#	Rate per 100 MVMT	Rate per 100,000 Population
Beaver	68	3.3	107.0	25	12.0	39.3	1	4.8	15.7
Box Elder	191	2.2	46.2	88	10.1	21.3	9	10.3	21.8
Cache	215	2.8	23.8	71	9.3	7.9	1	1.3	1.1
Carbon	64	1.9	28.9	23	6.7	10.4	2	5.8	9.0
Daggett	9	3.9	108.0	4	17.4	48.0	0	0.0	0.0
Davis	303	1.5	13.3	101	5.0	4.4	4	2.0	1.8
Duchesne	42	2.3	29.4	23	12.6	16.1	1	5.5	7.0
Emery	71	2.1	64.2	34	9.9	30.7	0	0.0	0.0
Garfield	39	3.0	84.0	17	12.9	36.6	1	7.6	21.5
Grand	53	1.9	53.2	28	10.2	28.1	2	7.3	20.1
Iron	191	3.5	60.0	93	16.9	29.2	6	10.9	18.8
Juab	59	1.8	74.8	28	8.4	35.5	2	6.0	25.4
Kane	31	2.5	43.6	13	10.5	18.3	1	8.0	14.1
Millard	153	3.7	122.3	66	16.0	52.7	6	14.6	47.9
Morgan	43	3.7	62.7	8	7.0	11.7	1	8.7	14.6
Piute	5	1.6	30.9	3	9.8	18.6	0	0.0	0.0
Rich	7	1.5	37.6	4	8.5	21.5	0	0.0	0.0
Salt Lake	2,864	4.0	33.7	1,119	15.5	13.2	14	1.9	1.6
San Juan	46	1.8	34.5	26	10.1	19.5	2	7.8	15.0
Sanpete	57	2.5	26.7	20	8.7	9.4	3	13.0	14.1
Sevier	166	4.4	88.1	64	17.0	34.0	7	18.6	37.1
Summit	218	3.7	85.2	69	11.8	27.0	3	5.1	11.7
Tooele	131	2.1	38.4	57	9.0	16.7	6	9.5	17.6
Uintah	59	2.2	24.1	27	9.9	11.0	1	3.7	4.1
Utah	897	3.1	26.9	376	12.9	11.3	11	3.8	3.3
Wasatch	132	5.5	96.9	59	24.4	43.3	1	4.1	7.3
Washington	137	1.6	17.2	80	9.6	10.0	3	3.6	3.8
Wayne	25	6.1	99.2	7	17.2	27.8	0	0.0	0.0
Weber	304	2.0	16.5	119	8.0	6.5	4	2.7	2.2
Statewide	6,580	3.0	31.3	2,652	12.1	12.6	92	4.2	4.4

1999 Speed-Related Crash Locations

The locations of the speed-related crashes are shown in Figure 8.03. Total speed-related crashes were more likely to occur on a highway compared to a municipal roadway. However, speed-related injury crashes and fatal crashes were more likely to occur on a municipal roadway compared to a highway.

Figure 8.03 Highway and Municipal Roadway Speed-Related Total Crashes, Injury Crashes and Fatal Crashes, Utah 1999



1999 Drivers Involved in Speed-Related Crashes

The largest proportion of speed-related crashes of all types involved drivers in the 15 to 19 year old group for both males and females (Table 8.03).

Table 8.03 Gender and Age of Drivers Involved in Speed-Related (S-R) Total Crashes, Injury Crashes and Fatal Crashes, Utah 1999

Age	S-R Total Crashes				S-R Injury Crashes				S-R Fatal Crashes			
	Male Drivers		Female Drivers		Male Drivers		Female Drivers		Male Drivers		Female Drivers	
	#	%	#	%	#	%	#	%	#	%	#	%
<15	20	0.4%	7	0.3%	15	0.8%	5	0.5%	2	2.9%	1	3.8%
15 - 19	1,223	26.5%	647	30.5%	482	26.7%	289	31.4%	16	23.2%	10	38.5%
20 - 24	1,039	22.5%	399	18.8%	415	23.0%	173	18.8%	10	14.5%	2	7.7%
25 - 29	601	13.0%	232	10.9%	234	12.9%	101	11.0%	8	11.6%	2	7.7%
30 - 34	375	8.1%	202	9.5%	148	8.2%	90	9.8%	6	8.7%	3	11.5%
35 - 39	379	8.2%	179	8.4%	145	8.0%	73	7.9%	5	7.2%	4	15.4%
40 - 44	265	5.7%	137	6.5%	89	4.9%	59	6.4%	7	10.1%	2	7.7%
45 - 49	210	4.6%	117	5.5%	84	4.6%	45	4.9%	3	4.3%	1	3.8%
50 - 54	159	3.4%	72	3.4%	69	3.8%	22	2.4%	4	5.8%	1	3.8%
55 - 59	114	2.5%	43	2.0%	42	2.3%	22	2.4%	2	2.9%	0	0.0%
60 - 64	73	1.6%	31	1.5%	32	1.8%	15	1.6%	2	2.9%	0	0.0%
65 - 69	54	1.2%	26	1.2%	16	0.9%	14	1.5%	2	2.9%	0	0.0%
70 - 74	24	0.5%	12	0.6%	10	0.6%	3	0.3%	0	0.0%	0	0.0%
75 - 79	24	0.5%	7	0.3%	10	0.6%	3	0.3%	1	1.4%	0	0.0%
80 - 84	14	0.3%	4	0.2%	2	0.1%	2	0.2%	1	1.4%	0	0.0%
85 +	5	0.1%	1	0.0%	2	0.1%	1	0.1%	0	0.0%	0	0.0%
Missing	36	0.8%	6	0.3%	12	0.7%	2	0.2%	0	0.0%	0	0.0%
Grand Total	4,615	100.0%	2,122	100.0%	1,807	100.0%	919	100.0%	69	100.0%	26	100.0%

*Note: More than one driver may be speeding in a speed-related crash.

1999 Speed-Related Crash Participants Injury Severity

Almost one-third (30.1%) of speed-related crash participants were injured compared to 21.7% of all motor vehicle crash participants. The percentage of speed-related crash participant fatalities (0.9%) was slightly higher than the percentage for all motor vehicle crash participants (0.3%).

Figure 8.04 Speed-Related Crash Participants Injury Severity as Reported by Police, Utah 1999 (n=12,507)

